

HD Terrestrial Receiver

User's Manual

HDCI-2000T



- ▶ The predefined channel list may return to default setting after OTA has been performed.
- ▶ The default password is 0000. If you have forgotten your password, please contact your local product distributor.

HUMAX
EASY DIGITAL

Notice

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Notice

Read this manual carefully and make sure you understand the instructions provided. For your safety, be aware of the following precautions.

Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

- **Warning**

Indicates a hazardous situation which could result in serious injury.

- **Caution**

Indicates a situation which could damage the equipment or other apparatus.

- **Note**

Indicates additional information to make the user aware of possible problems and information of any importance to help understand, use, and maintain the installation.



To reduce the risk of electric shock, do not remove cover(or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates **dangerous voltage** inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

Safety Warning

This product has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

Safety Instructions and Precautions

1. MAINS SUPPLY

90-250V AC 50/60Hz

Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before you start any maintenance or installation procedures.

2. OVERLOADING

Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

3. LIQUIDS

The product should not be exposed to liquid of any kind. In addition, no objects filled with liquid should be placed on the apparatus.

4. CLEANING

Disconnect the product from the wall outlet before cleaning.

Use a light damp cloth (no solvents) to dust the product.

5. VENTILATION

The slots on top of the product must be left uncovered to allow proper airflow into the unit. Do not stand the product on soft furnishings or carpets. Do not stack electronic equipments on top of the product.

6. ATTACHMENTS

Do not use any unsupported attachments as these may be hazardous or cause damage the product.

7. CONNECTION TO THE AERIAL

Disconnect the product from the mains before connecting or disconnecting the cable from the aerial. Failure to do so can damage the aerial.

8. CONNECTION TO THE TV

Disconnect the product from the mains before connecting or disconnecting the cable from the TV. Failure to do so can damage the TV.

9. EARTHING

The aerial cable must be buried in the ground.

10. LOCATION

Place the product indoors to avoid exposing it to lightning, rain or sun.

Do not place it near a radiator or heat register.

Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influences, such as a TV or a VCR.

Do not block the openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface.

If you place the product on a rack or a bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.

Do not place the product on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling product can cause serious injury to a child or adult, and serious damage to the appliance.

Safety Warning

11.LIGHTNING, STORM, or NOT IN USE

Unplug the product from the wall outlet and disconnect the antenna during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

12.EXTRANEIOUS OBJECTS

Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.

13.REPLACEMENT of PARTS

When replacement of parts is required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorised substitution may result in additional damage to the unit.

Warning

1. Follow these directions in order to avoid damage of the power cord or plug.
Do not modify or process the power cord or plug arbitrarily.
Do not bend or twist the power cord.
Make sure to disconnect the power cord holding the plug.
Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
The mains plug shall remain readily operable.
2. Follow these directions. Failure to follow any of them may cause electrical shock.
Do not open the main body.
Do not insert metal or inflammable objects inside the product.
Do not touch the power plug with wet hands.
Disconnect the power cord in case of lightning.
3. Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.
4. Please do not insert metal or alien substance into the slots for the modules and Smartcards. It may cause damage to the product and reduce its life span.

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1. Before Using the Product

This chapter provides detailed instructions on the product and its accessories.

1.1 Package Contents

Please check all package contents before using your product.



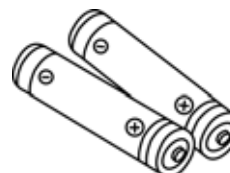
Remote Control



HDMI-Cable



User's Manual



Batteries

Note:

- Faults may occur if the remote control is left without battery for a long time. Always keep the battery inserted in the remote control.
- Package contents may vary according to area.

1. Before Using the Product

1.2 Front Panel



- 1. STANDBY BUTTON**
Switches between operation and standby modes.
- 2. TV/RADIO BUTTON**
Switches between TV and radio modes.
- 3. P-/P + BUTTON**
Moves the TV/radio channel up or down.
- 4. VOL-/VOL+ BUTTON**
Adjusts the audio volume.
- 5. VIDEO FORMAT**
Changes the resolution of video.
- 6. CI-MODULE SLOT**
A slot for two CI modules

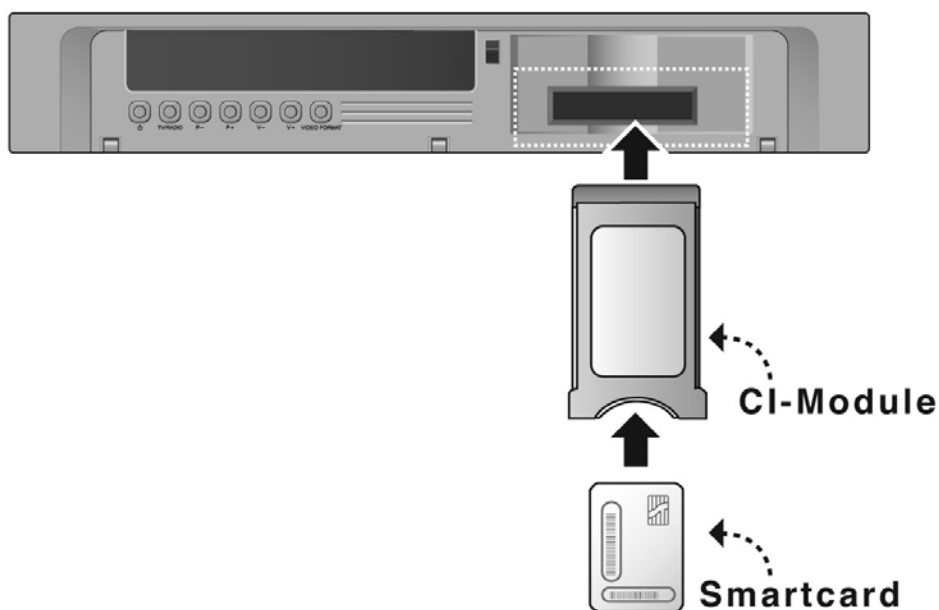
1.3 Conditional Access

Although some TV and radio channels are free to air, most TV and radio/music channels are available on a subscription basis and can only be enjoyed via a Conditional Access component.

1. Inserting a CI (with Smartcard)

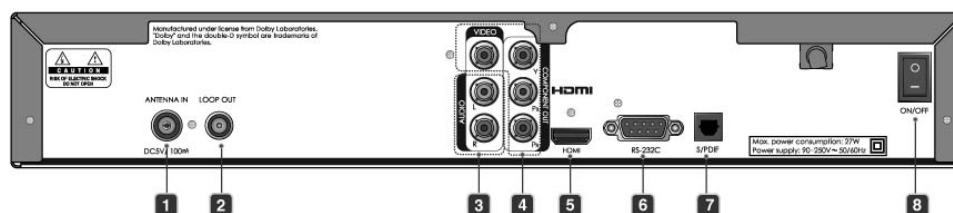
A CI module looks like a PC map (PCMCIA) for laptops. There are different kinds of CI Modules, suitable for different coding systems; Irdeco, Conax and more. Additionally to the CI module, a Smartcard is needed to decode the channels.

1. Open the right-hand flap on the front of the product.
2. Follow the instructions of the module and insert the Smartcard into the CI module.
3. Keep the CI module (with the Smartcard) horizontal.
4. Insert the CI module into the slot.



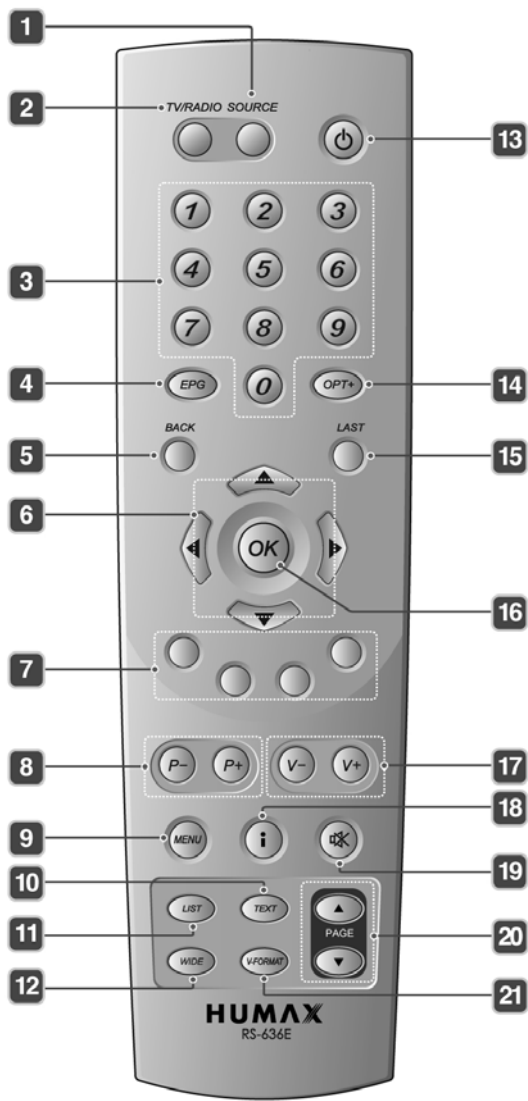
1. Before Using the Product

1.4 Rear Panel



1. **ANTENNA IN**
Connects the aerial cable.
2. **LOOP OUT**
Connects to the RF IN of the TV or VCR using a RF cable.
3. **AUDIO L/R**
Connects to the TV or VCR and outputs audio signals.
4. **VIDEO**
Connects to the TV or VCR and outputs video signals.
5. **HDMI**
Connects to the TV using HDMI connector.
6. **RS-232C**
Connects to the PC to update software.
7. **S/PDIF**
Outputs the digital audio signals.
8. **ON/OFF**
Powers on/off.

1.5 Remote Control



1. Before Using the Product

1. SOURCE

(This function is not supported.)

2. TV/RADIO

Switches between TV and radio modes.

3. NUMERIC(0-9) BUTTONS

Enters a TV/radio channel number or menu option number.

4. EPG

Displays the EPG (electronic programme guide).

5. BACK

Closes and returns to the previous menu and screen.

6. ARROW BUTTONS

Changes the channel or moves the cursor up, down, left or right.

7. COLOUR BUTTONS (R/G/Y/B)

Select colour keys for interactive applications.

8. P- / P+

Changes the channel.

9. MENU

Displays the main menu.

10.TEXT

Enters the digital text service.

11.LIST

Displays the channel list.

12.WIDE

Sets the display format.

13.STANDBY

Switches between operation and standby modes.

14.OPT+ (OPTION)

Displays the audio, teletext and subtitle language services.

15.LAST

Returns to the previous channel.

16.OK

Selects a menu, or confirms the selected operation. Also displays the channel list while watching a programme.

17.V- / V+

Adjusts the audio volume.

18.i (INFORMATION)

Displays the channel and programme information.

19.MUTE

Mutes or unmutes the audio temporarily.

20.PAGE ▲/▼

Changes the page.

21.V-FORMAT

Change the resolution of video.

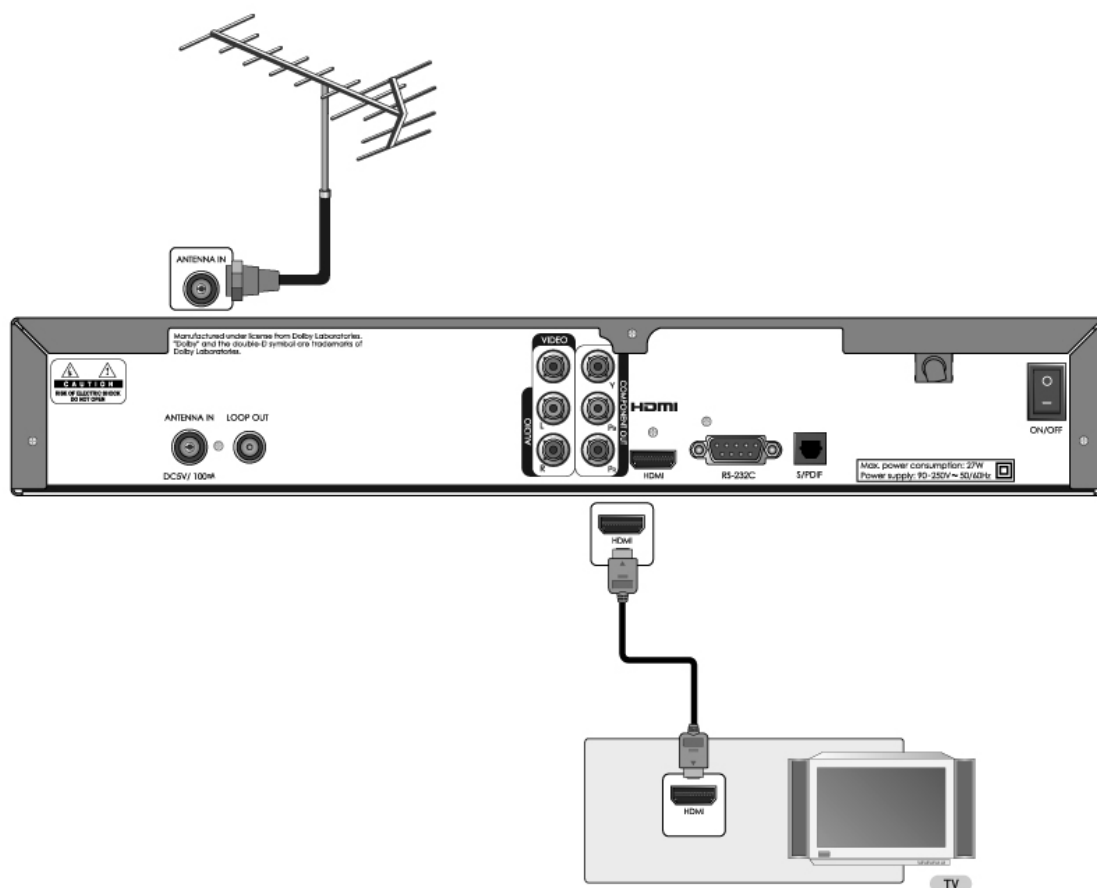
2. Setup

This chapter describes how to connect your product to the TV with the particular equipments for gaining optimum signal quality. The product provides various interfaces to connect to the TV, VCR or other devices. Select the most appropriate procedure depending on the equipment you have.

Note: If you encounter any problems setting up your product, please contact your local product distributor.

2.1 Using HDMI Connector

The HDMI connection is recommended for Digital TV. In case the TV has a HDMI input connector, a special all-digital interface that provides the highest picture quality, connect the product to the TV with the HDMI cable as follows.

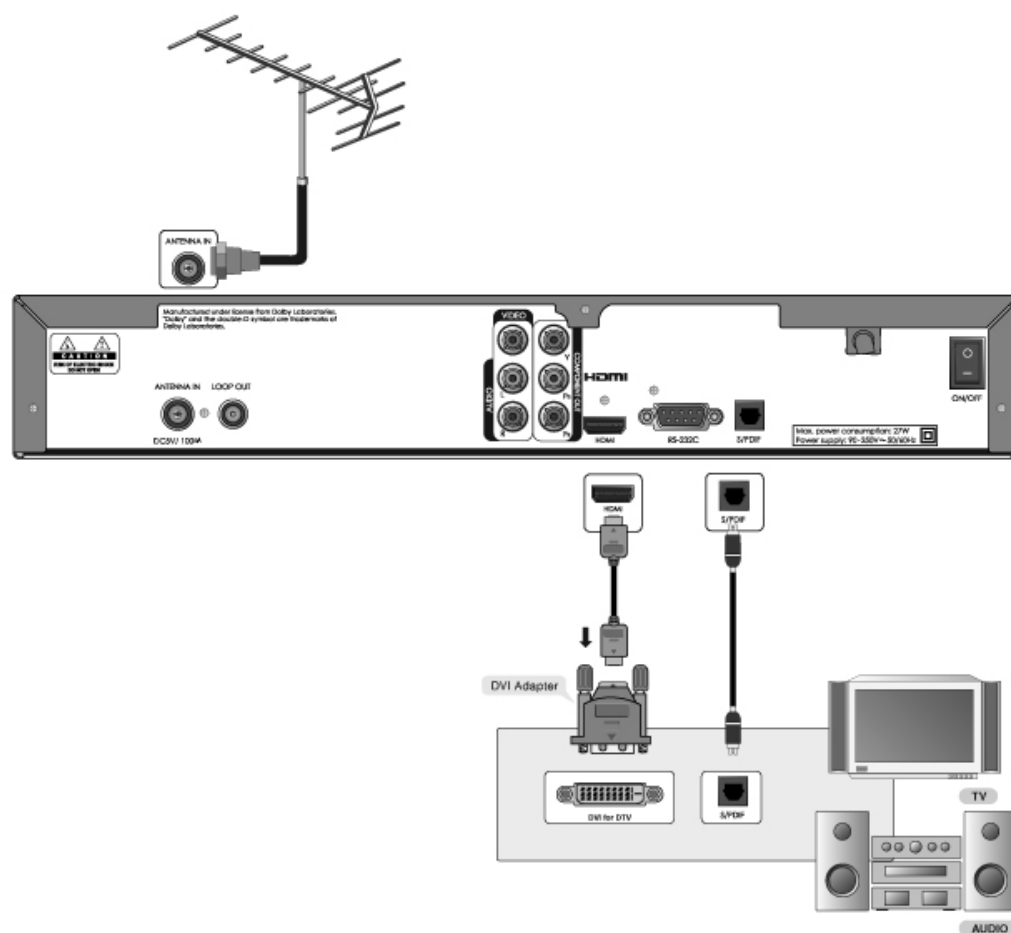


2. Setup

2.2 Using DVI Connector

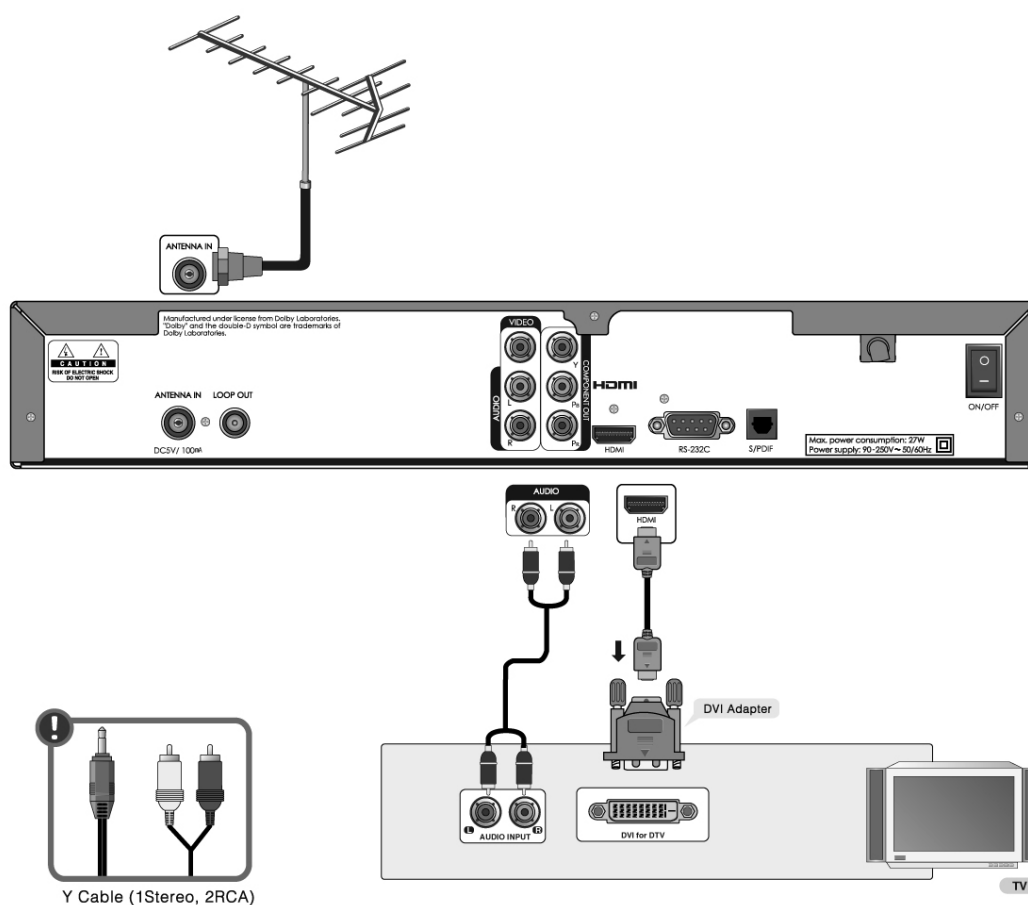
The DVI connection using a HDMI to DVI converter is recommended for Digital TV. In case the TV has a DVI input connector, connect the product to the TV with the HDMI cable using a HDMI to DVI converter as follows.

1. When equipped with an A/V receiver



2. When there is no A/V receiver available

In case you are not equipped with an A/V receiver, connect the product to the TV using the audio cable as follows.

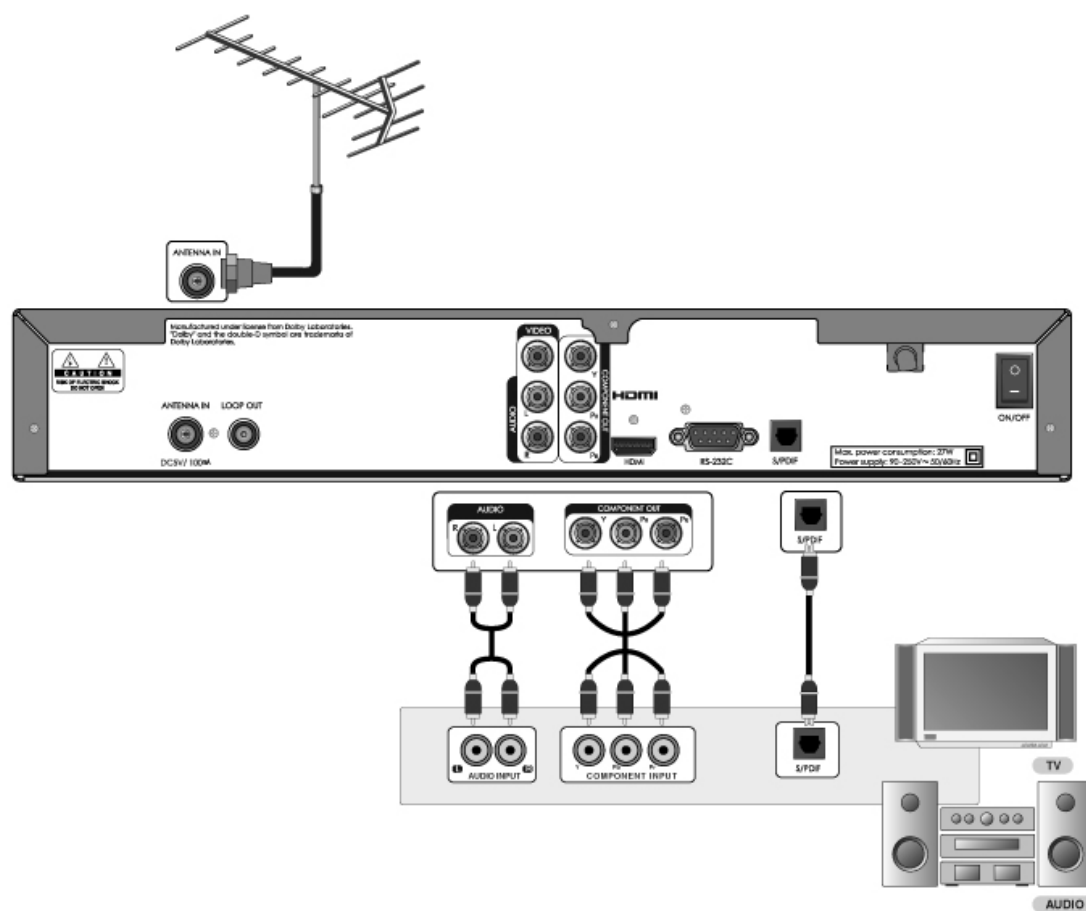


Note: You can also connect the product to the audio input jack of your TV set using the **3.5 Stereo Jack Cable to 2 RCA Y Cable**.

2. Setup

2.3 Using Component Cable

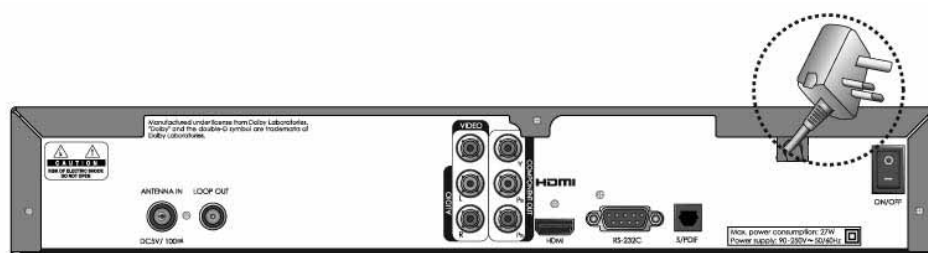
The Component connection is recommended for Digital TV. Connect the product to the TV with the Component cable as follows.



2.4 Powering On

1. Connect the power cord of the product to a wall outlet.
2. Turn on the power switch located at the left side on the back of the product.

Note: The type of power cord varies depending on area. Select the appropriate type for your country.



3. Power on by pressing the **STANDBY** (⏻) button of the remote control or the **STANDBY** ⏻ button at the front of the product.



3. Installation Wizard

When powering on your product for the first time after purchase, the installation wizard will operate automatically. This chapter includes the first time setup of the language, time, search channel and software update which will show you how to start the initial installation.

Note:

- The default password is **0000**.
- If you have forgotten your password, please contact your local product distributor.

3.1 Language

Language allows you to select the main language.

Select the appropriate language from the list using the ▲/▼ button. Press the **OK** (⊙) button to save the selected language as default language.

Note: The display language may differ according to country.



3.2 Country

You can select the country. Select your region from the list using the ▲/▼ button and press the **OK** (⊙) button.

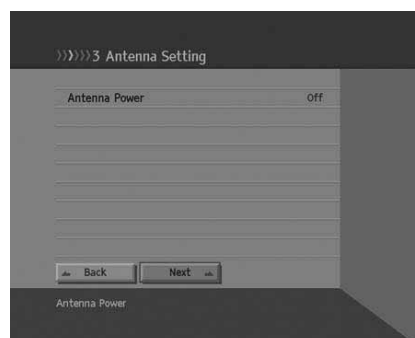


3.3 Antenna Setting

You can select to turn the antenna power on or off.

- **Power on the antenna only in the following case:**
 - If you are using an active antenna that has its power supplied by the aerial.
- **Power off the antenna in the following cases and in all other cases:**
 - If you are using an active antenna with its own power source.
 - If you are using a passive antenna.

Caution: Be sure to turn off the antenna power when using an active antenna with its own power source. Damage may occur to the antenna if left on.



Select **On/Off** using the **OK** (⊙) or ◀▶ button. You will be prompted to enter your password when selecting **On**.

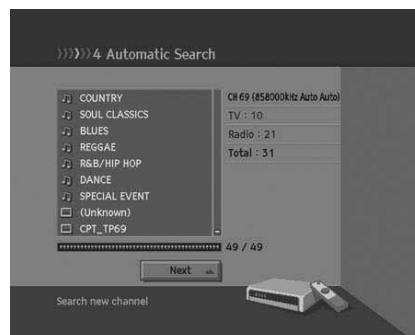
Note: The default password is 0000.

3.4 Channel Search

Channel search will activate automatically after the antenna setting option has been selected. Wait until the search is completed. If you want to stop the search, press the **OK** (⊙) button.



When channel search is complete, the results will appear. Press the **OK** (⊙) button to proceed to the next step.



3. Installation Wizard

3.5 Time

You can set the current time.

Select **GMT Offset** and press the **OK** (⊙) or ◀▶ button to display the values for GMT offset.

Select the appropriate GMT offset value using the ▲/▼ button and press the **OK** (⊙) button to set the current time. Then select **Next** and press the **OK** (⊙) button.

Note: If GMT offset is **Auto**, it is automatically set depending on your country. However, if the time is not set properly, you can change GMT offset to fit your local time.



After all setting is complete, you can view the result screen. Select **Finish** and press the **OK** (⊙) button to complete the installation wizard.

4. Basic Operation

This chapter describes the basic functions of the product such as switching channel, volume control, lip-sync, resolution, option list and programme information. You can check or change the settings.

4.1 Switching Channel

Switching Channel allows you to switch the current channel using one of the following methods.

1. Press the **P-/P+** () button.
2. Enter the channel number using the **NUMERIC(0-9)** buttons to move to the channel directly.
3. Press the **TV/RADIO** () button to switch between TV channels and radio channels.

Note: You can switch channels using the channel list or EPG.

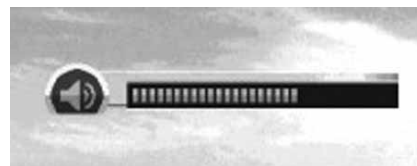
To return to the previous channel, press the **LAST** () button.

4.2 Volume Control

Volume Control allows you to adjust the audio volume.

1. Press the **V-/V+** () button to adjust the audio volume.
2. Press the **MUTE** () button to stop the audio temporarily.

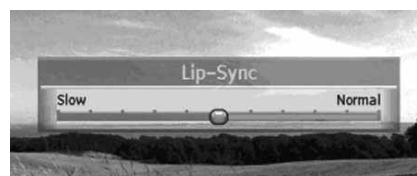
Note: The mute function remains set while you switch channels.



4.3 Lip-Sync

Lip-Sync allows you to adjust the sound difference of video and audio.

1. Press the **MUTE** () button for 3 seconds.
2. Adjust the Lip-Sync and save the setting.



4. Basic Operation

4.4 Resolution

Resolution allows you to set the resolution of the screen.

1. Press the **V-FORMAT** (V-FORMAT) button.
2. The current resolution will be displayed.
3. Each time you press the **V-FORMAT** (V-FORMAT) button, the resolution changes in the following sequence: 576p -> 720p -> 1080i.



4.5 Option List

Option List allows you to set options such as audio, teletext and subtitle language.

1. Audio

You can select the language you prefer in **Audio** if the current programme is available in multiple audio languages.

1. Press the **OPT+** (OPT+) button.
2. Select **Audio** using the $\blacktriangle/\blacktriangledown$ button and press the $\blacktriangleright$ button.
3. Select the audio language you prefer using the $\blacktriangle/\blacktriangledown$ button and press the **OK** (OK) button.
4. Select audio direction (left, right, stereo) using the $\blacktriangleright$ button.

Note:

- You can select the required audio language in **8.2 Language Setting**.
- If the programme is broadcast in Dolby Digital, you cannot set the audio direction.



2. Teletext

You can use your TV remote control unit to control the teletext service. All teletext supporting channels have the teletext icon on the i-plate.

1. Press the **OPT+** (OPT+) button.
2. Select **Teletext** using the ▲/▼ button and press the ► button.

Note: You can also use the **TEXT** (TEXT) button on your remote control to view teletext.

3. Subtitle

You can select the language for the subtitle if the programme provides subtitle information.

1. Press the **OPT+** (OPT+) button.
2. Select **Subtitle** using the ▲/▼ button and press the ► button.
3. Select the required subtitle language using the ▲/▼ button and press the **OK** (OK) button. The subtitle will be displayed in the selected language at the bottom of the screen.
4. Select **Off** from the subtitle language list to hide subtitle from the screen.



4. Basic Operation

4.6 Programme Information (i- plate)

Programme information is always displayed for a certain period of time whenever you switch channels. You can view the programme information by pressing the **i** (i) button while watching a programme. Press the **BACK** (⏮) button to hide the i-plate.

1. General Information

The general information is displayed on the screen as the following.



1. Channel number and name

2. Icons

- | | |
|---|--|
|  | Displayed only when the channel is a scrambled channel. |
|  | Displayed only when the channel provides HD programmes. |
|  | Displays the resolution of the current programme. |
|  | Displayed only when subtitle information is available. |
|  | Displayed only when there is any teletext information. |
|  | Displayed only when the programme is broadcast in Dolby Digital. |
|  | Displayed only if this programme is reserved. |
|  | Represents parental level. Indicates the minimum level of age for viewing the programme. |

3. Programme name

4. Current time & date

5. Next programme information: Displayed if next programme information is provided. Press the **▶** button to display next programme information.

6. Programme broadcasting time and progress bar: Displays programme playing time and progress bar.

7. Detailed programme information: Displayed if detailed programme information is provided.

8. Option: Displayed if options such as audio, teletext or subtitle is provided.

Note: If there is no programme information available, programme information is not displayed.

2. Detailed Programme Information

You can see the detailed information about the current programme. Press the **i** (i) button where the i-plate is displayed to view detailed information.

Note:

- Press the **i** (i) button again to hide the information box.
- If the detailed programme information is over one page, use the **PAGE** ▲/▼ (PAGE/PAGE) button to move to the previous or next page.



5. Channel List

This chapter will help you display the channel list using the **LIST** () button and switch to another channel in the channel list.

Five types of channel lists are provided for quick and easy channel search.

TV	The list of all TV channels
Radio	The list of all radio channels
HD Channels	The list of all HD TV channels.
Favourite	The list of the favourite channels in five groups
Recent Channels	The list of the recently viewed channels

Note:

- Press the **BACK** () button to exit the **Channel List**.
- The channel list is updated automatically when changes occur.
- **HD Channels** may or may not be available depending on the version of the software.

5.1 TV Channel List

TV Channel List allows you to delete or include the TV channels in **Favourite**. You can also use lock/unlock functions or configure the menu.

1. Press the **LIST** () button while watching a programme.
2. Press the **RED** () button on the remote control while the channel list is displayed.
3. Select the channel you wish to view using the **▲/▼** button and press the **OK** () button.
4. You can also enter the channel number using the **NUMERIC(0-9)** buttons and press the **OK** () button to change to a certain channel.
5. Press the **LIST** () button again and select one option among **TV** and **HD Channels** press the **OK** () button.
6. To switch to **TV** or **HD Channels** press the **RED** () button again.



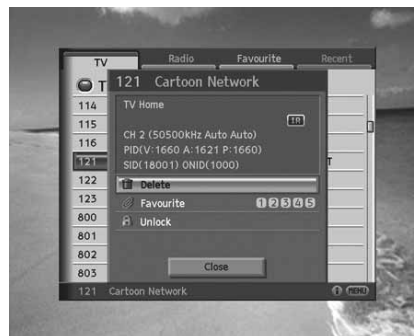
Note: You can switch between TV/radio by simply pressing the **TV/RADIO** () button on the remote control.

1. Deleting Channels

1. Select a channel to delete and press the **i** (i) button.
2. Select **Delete** using the **▲/▼** button and press the **OK** (⏻) button.
3. A pop-up will appear. Select **Yes** and press the **OK** (⏻) button.
4. You will be prompted to enter your password. Enter your password and press the **OK** (⏻) button.

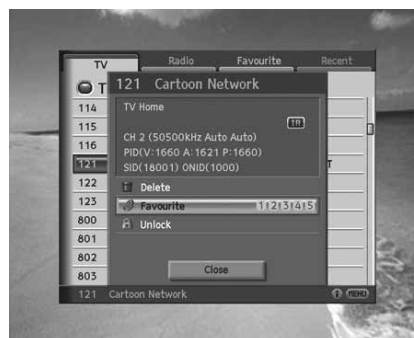
Note:

- You cannot delete items from **Recent** channel list or **Favourite** channel list.
- The default password is **0000**.



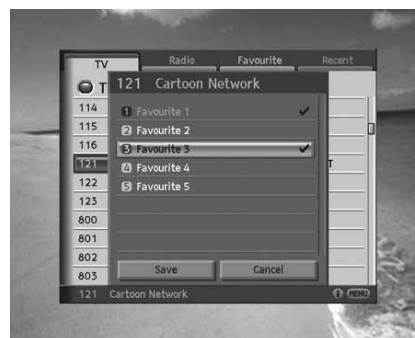
2. Including Channels in Favourite Group

1. Select a channel to put into the favourite channel list and press the **i** (i) button.
2. Select **Favourite** using the **▲/▼** button and press the **OK** (⏻) button.



5. Channel List

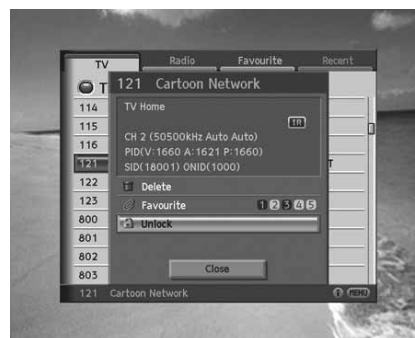
3. Select one or more groups from the five favourite groups and press the **OK** (OK) button.
4. Select **Save** and press the **OK** (OK) button.



3. Using Lock/Unlock

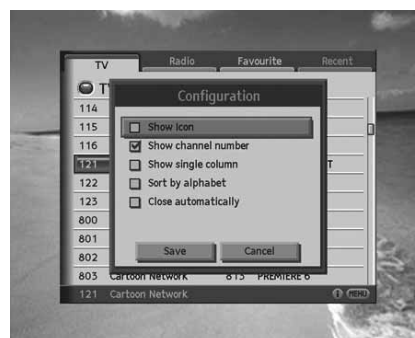
1. Select a channel to lock/unlock and press the **i** (i) button.
2. When locking an unlocked channel, select **Unlock** and press the **OK** (OK) button. **Unlock** will become **Lock**.
3. When unlocking a locked channel, select **Lock** and press the **OK** (OK) button. A pop-up requiring your password will appear. Enter your password and **Lock** will become **Unlock**.

Note: The default password is **0000**.



4. Configuring Menu

1. Press the **MENU** (MENU) button on the remote control while the channel list is displayed.
2. A list of options will show. Mark the required items and select **Save** and press the **OK** (OK) button.



5.2 Radio Channel List

Radio Channel List allows you to delete or include the radio channels in **Favourite**. You can also use lock/unlock functions or configure the menu.

1. Press the **LIST** () button while watching a programme.
2. Press the **GREEN** button on the remote control while the channel list is displayed.
3. Select the channels you wish to listen to using the **▲/▼** buttons and press the **OK** () button.
4. You can also enter the channels number using the **NUMERIC(0-9)** buttons and press the **OK** () button to change to a certain channel.

Note: Refer to **5.1 TV Channel List** for detailed instructions on deleting, favourite group, lock/unlock and menu configuration. .



5.3 Favourite List

Favourite List is the list of the favourite channels the user has selected. There are five favourite groups in total.

1. Press the **LIST** () button while watching a programme.
2. Press the **YELLOW** button on the remote control.
3. Press the **LIST** () button again and select a favourite group to view, and press the **OK** () button.
4. To change the favourite group displayed, press the **YELLOW** button again.



5. Channel List

5.4 Recent List

Recent List displays the list of recently viewed channels.

- 1. Press the **LIST** (LIST) button while watching a programme.
- 2. Press the **BLUE** button on the remote control.



6. EPG

The **EPG (Electronic Programme Guide)** displays the detailed programme information of each channel, in time and date order. You can customize your own programme guide to list the channels or programmes of interest to you and schedule your viewing using the programme information.

Note: Press the **EPG** () or **BACK** () button to exit the EPG screen.

6.1 EPG Main

EPG Main enables you to view the programme information of a certain channel in time and date order. You can reserve programmes, view contents information or view the channel list by date.

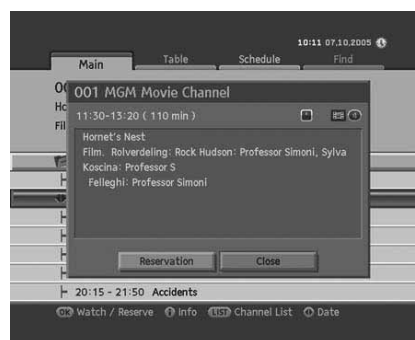
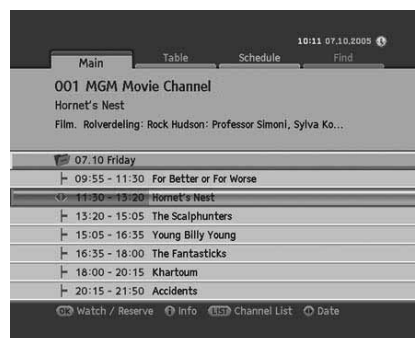
1. Press the **EPG** () button.
2. Press the **RED** () button on the remote control.

1. Using EPG

1. To view all programmes of a certain day, press the  button. To return, press the  button.
2. To move to previous/next programmes use the  /  button. If the contents are more than one page, use the **PAGE**  /  button to skip to the next page.
3. You can enter the number of the channel using the **NUMERIC(0-9)** buttons on the remote control to switch to a certain channel.
4. Select the programme you wish to view and press the **OK** () button. You can watch the programme if it is currently on air or reserve it if it is a future programme.
5. Press the **i** () button to view detailed information of the chosen programme.

Note:

- You can reserve the programme after viewing the programme information. When the programme is currently on air, **Reservation** is replaced by **Watch**.
- The  icon indicates reserved programmes.
- You can also use the **P-/P+** ( / ) button or the channel list to switch channels.



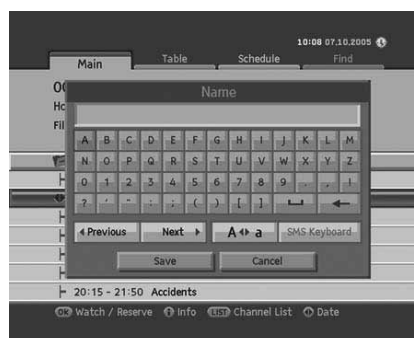
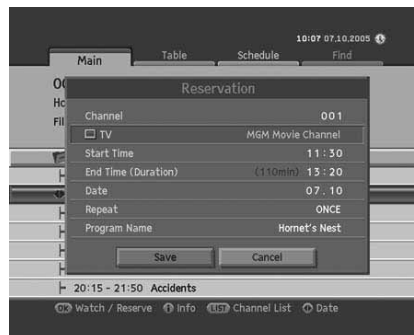
6. EPG

2. Reserving Programmes

You can make reservations for the future programmes you wish to watch automatically.

1. Select the programme you want to reserve and press the **OK** (OK) button. A pop-up will appear.
2. To change **Channel**, press the **Left/Right** button. You can also enter the channel number using the **NUMERIC(0-9)** buttons.
3. To change **Start Time** and **End Time**, enter the time using the **NUMERIC(0-9)** buttons.
4. To change **Date**, press the **Left/Right** button. You can also enter the date using the **NUMERIC(0-9)** buttons.
5. To change **Repeat** frequency, press the **Left/Right** button to choose from **Once**, **Daily** and **Weekly**.
6. To change **Programme Name**, enter the name of the programme in the screen keyboard. Select **Save** and press the **OK** (OK) button.

Note: The default password is 0000.

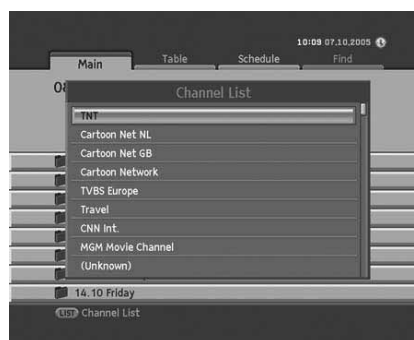


3. Channel List

You can change the channel using the channel list.

1. Press the **LIST** (LIST) button to view the channel list.
2. Select the channel you want using the **Up/Down** button and press the **OK** (OK) button. If the contents are more than one page, use **PAGE** **Left/Right** button to skip to the next page.
3. The EPG for the selected channel is displayed.

Note: You can switch between TV/radio by simply pressing the **TV/RADIO** (TV/RADIO) button on the remote control.



6.2 EPG Table

EPG Table displays the programme information of each channel based on the date and time. You can look up the programmes and make reservations.

1. Press the **EPG** (EPG) button.
2. Press the **GREEN** (O) button to display EPG table.
3. Move to the previous/next programme within the same channel using the ◀/▶ button.
4. Move to another channel using the ▲/▼ button. If the contents are more than one page, use **PAGE** ▲/▼ (PAGE) button to skip to the next page. You can enter the channel number you wish to view using the **NUMERIC(0-9)** buttons.
5. Press the **OK** (O) button to view the programme now or reserve if it is a future programme.

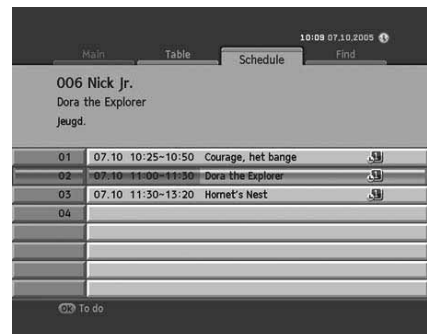


6.3 Schedule List

Schedule List displays the list of the programmes reserved. You can modify, delete or make new reservations.

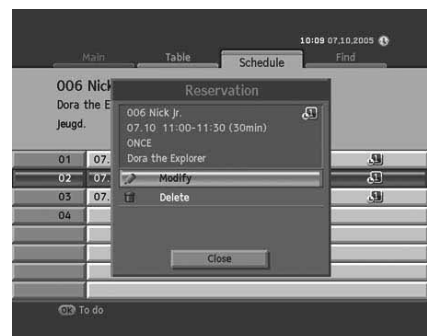
1. Press the **EPG** (EPG) button.
2. Press the **YELLOW** (O) button to display the schedule list.
3. The reserved programmes will be displayed in time order.
4. Select the programme you want to edit using the ▲/▼ button and press the **OK** (O) button.

Note: Press the **i** (i) button to view detailed programme information.



1. Modifying Schedule

1. Select **Modify** using the ▲/▼ button and press the **OK** (O) button.
2. Reservation pop-up will appear. Enter the modified values and press the **OK** (O) button.



6. EPG

2. Deleting Schedule

1. Select **Delete** using the **▲/▼** button and press the **OK (⊙)** button.
2. A pop-up will appear. Select **Yes** and press the **OK (⊙)** button.

3. New Reservation

1. Select a blank space using the **▲/▼** button and press the **OK (⊙)** button.
2. Reservation pop-up will appear. Enter the channel number, start/end time, date, repeat frequency and programme name and press the **OK (⊙)** button. (Refer to **2. Reserving Programmes** in **EPG Main**.)

Note:

- Reservations for deleted channels or past programmes are automatically deleted.
- In case the channel number has changed, reservation has to be done again.

6.4 Find Programme

Find Programme enables you to find the programme you want by entering the genre, name, time and the day of the programme.

1. Press the **EPG (⊙)** button.
2. Press the **BLUE (○)** button to find programme.
3. Enter the genre, name, time and day of the programme.

Note: If you select **Reset** and press the **OK (⊙)** button, the default value will appear.

10:10 07.10.2005

Main Table Schedule Find

Enter the genre, name, time or day of the programme.
The programme may not be found when the information is not available.

Genre	All
Name	No Name
Time	All
Day	All

Start Reset

Select Option

1. Choosing Genre

1. Select **Genre** using the **▲/▼** button and press the **OK (⊙)** button.
2. Select the applicable genre using **▲/▼/◀/▶** button and press the **OK (⊙)** button.
3. Select **Save** and press the **OK (⊙)** button to complete.

Note: You can select up to three types of genres.

10:11 07.10.2005

Main Table Schedule Find

Enter the genre, name, time or day of the programme.
The programme may not be found when the information is not available.

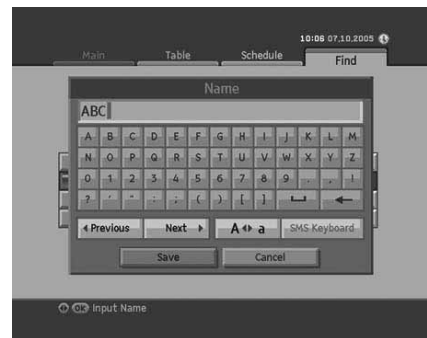
Genre	All
Name	No Name
Time	All
Day	All

Save Cancel

Change Option Select Option

2. Entering Programme Name

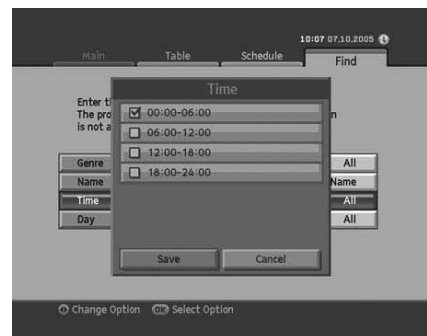
1. Select **Name** using the ▲/▼ button and press the OK (⊙) button.
2. Keyboard will appear. Enter the programme name on the keyboard screen.
 - ◀ Previous Switch to the previous keyboard.
 - ▶ Next Switch to the next keyboard.
 - A ↔ a Change to upper case/lower case keyboard.
3. Select **Save** and press the OK (⊙) button to complete.



Note: You have to enter more than three letters. However, entering too many letters may cause error.

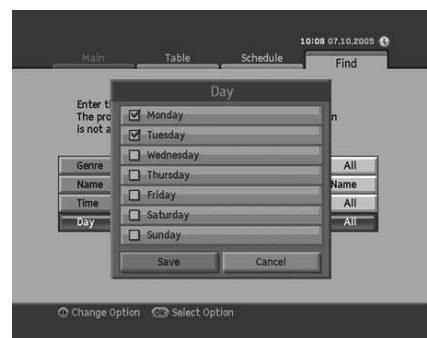
3. Search by Time

1. Select **Time** using the ▲/▼ button and press the OK (⊙) button.
2. Select the specific time using the ▲/▼ button and press the OK (⊙) button.
3. Select **Save** and press the OK (⊙) button to complete.



4. Search by Day of Week

1. Select **Day** using the ▲/▼ button and press the OK (⊙) button.
2. Select the specific day of week using the ▲/▼ button and press the OK (⊙) button.
3. Select **Save** and press the OK (⊙) button to complete.



6. EPG

5. Search Result

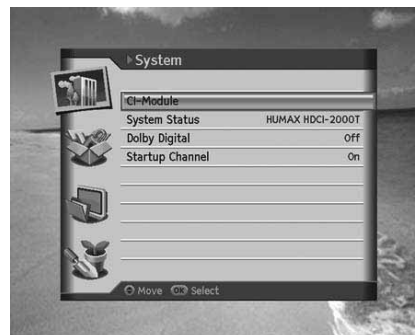
- 1. After setting more than one required value, select **Start** and press the **OK** (⊙) button to proceed.
- 2. The search result of the entered values will appear.
- 3. To reserve a programme, select a future programme and press the **OK** (⊙) button.
- 4. To search again, press the **BLUE** (○) button.



7. System

In this chapter you can easily access the service features of the product. Options such as CI-Module, system status, Dolby Digital and startup channel are included in **System**.

Note: Press the **BACK** () button to save the changes and return to the previous menu. Press the **MENU** () button to exit the menu screen.



7.1 CI-Module

CI-Module shows you the current status of the Common Interface module.

1. Press the **MENU** () button.
2. Select **System** using the  button and press the **OK** () button.
3. Select **CI-Module** using the  button and press the **OK** () button.
4. The **CI-Module** information will be displayed.

Note: The displayed information about each Common Interface may differ depending on the type of Common Interface.



7.2 System Status

System Status allows you to view the system information of the product.

1. Press the **MENU** () button.
2. Select **System** using the  button and press the **OK** () button.
3. Select **System Status** using the  button and press the **OK** () button.
4. The system information of the product will be displayed.

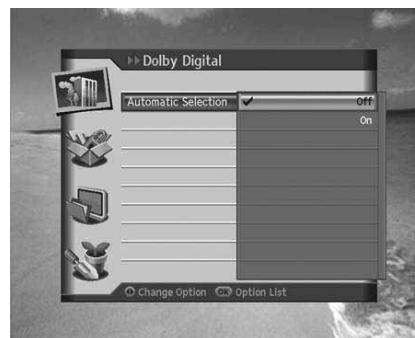
Note: The information displayed may differ.



7. System

7.3 Dolby Digital

1. Press the **MENU** () button.
2. Select **System** using the  /  button and press the **OK** () button.
3. Select **Dolby Digital** using the  /  button and press the **OK** () button.
4. **Automatic Selection** will appear. Select **On/Off** using the **OK** () or  button and press the **BACK** () button to set the value.



7.4 Startup Channel

You can assign a certain channel to be displayed when the product is turned on.

1. Press the **MENU** () button.
2. Select **System** using the  /  button and press the **OK** () button.
3. Select **Startup Channel** using the  /  button and press the **OK** () button.



1. Setting the Startup Channel

You can choose to assign a certain channel to be displayed when powering on.

1. Select **Setting the Startup Channel** using the  /  button.
2. Select one option from **On/Off** using the **OK** () or  button.

On The assigned channel will be displayed when powering on.

Off The last channel you have watched will be displayed when powering on.

2. Startup Channel

You can assign a preferred channel as the start channel.

1. Select **Startup Channel** using the **▲/▼** button.
2. Select one option from **1** or **User preference** using the **OK** (⊙) or **▶** button.
3. When you have selected **User preference**, enter the channel number using the **NUMERIC(0-9)** buttons and press the **OK** (⊙) button.

Note: When **Off** is selected, **Start Channel Number** is inactivated. You can switch to TV/radio by pressing the **TV/RADIO** (⊖) button on the remote control.



8. Setting

In this chapter you can set parental control, language setting, time setting, A/V setting and other configuration items to keep limitations where you want them for the viewers.

Note: Press the **BACK** () button to save the changes and return to the previous menu. Press the **MENU** () button to exit the menu screen.

8.1 Parental Control

Parental Control allows you to set rating limits for each programme according to the age of the viewer or change your previous password. You can also lock the changes you have made by operating installation lock.

1. Press the **MENU** () button.
2. Select **Setting** using the **▲/▼** button and press the **OK** () button.
3. Select **Parental Control** using the **▲/▼** button and press the **OK** () button.
4. You will be prompted to enter a password. Enter the password using the **NUMERIC(0-9)** buttons.

Note: The default password is **0000**.



1. Censorship Classification

Censorship Classification enables you to place certain restrictions on the viewers by setting age limits and require a password to view the blocked programmes.

1. Select the **Censorship Classification** using the **▲/▼** button.
2. Select the **Age Level** you wish to set using the **OK** () or **◀▶** button.

View All	All programmes can be watched because there is no age limitation.
7	Programmes are blocked for those under the age 7.
12	Programmes are blocked for those under the age 12.
15	Programmes are blocked for those under the age 15.
18	Programmes are blocked for those under the age 18.
Lock All	All Programmes are blocked.



Note:

- You have to enter your password to watch the programme blocked by the age restriction.
- The default password is **0000**.

2. Change Password

Change Password allows you to change the current password.

1. Select the **Change Password** using the ▲/▼ button and press the **OK** (⊙) button.
2. Enter **New Password** using the **NUMERIC(0-9)** buttons.
3. Enter **New Password** again to confirm **Verify Password**.

Note: The default password is **0000**.



3. Installation Lock

Installation Lock allows you to block access to the installation menu settings you have previously made.

1. Select **Installation Lock** using the ▲/▼ button.
2. Select **Enable/Disable** using the **OK** (⊙) or ◀▶ button.

- | | |
|----------------|--|
| Enable | Password is necessary when accessing installation menu. |
| Disable | Access to installation menu is permitted without password. |



8. Setting

8.2 Language Setting

Language Setting enables you to set the basic language options such as menu language, subtitle display and subtitle font.

1. Press the **MENU** (⏏) button.
2. Select **Setting** using the **▲/▼** button and press the **OK** (⏏) button.
3. Select **Language Setting** using the **▲/▼** button and press the **OK** (⏏) button.



1. Menu Language

Menu Language allows you to choose from the given language options and set the language for the menu.

1. Select **Menu Language** using the **▲/▼** button.
2. Select the language you require using the **OK** (⏏) or **◀▶** button.



2. Subtitle Display

Subtitle Display allows you to show the subtitles automatically. This service is provided when subtitles are available.

1. Select **Subtitle Display** using the **▲/▼** button.
2. Select one option from **Auto** and **Manual** using the **OK** (⏏) or **◀▶** button.

Auto Subtitles are displayed automatically in the predefined subtitle language.

Manual Subtitles are displayed when you press the **OPT+** (⏏+) button on the remote control and set subtitle.

3. Subtitle Font

Subtitle Font enables you to select the font of the subtitle.

1. Select **Subtitle Font** using the **▲/▼** button.
2. Select one option from **Variable** and **Fixed** using the **OK (⊙)** or **◀▶** button.

Variable Uses the horizontally variable subtitle font.

Fixed Uses the fixed subtitle font.

8.3 Time Setting

Time Setting allows you to set the current time or set the time you want to turn on/off the product.

1. Press the **MENU (⊖)** button.
2. Select **Setting** using the **▲/▼** button and press the **OK (⊙)** button.
3. Select **Time Setting** using the **▲/▼** button and press the **OK (⊙)** button.



1. GMT Offset

You can set the current time using **GMT Offset**.

1. Select **GMT Offset** using the **▲/▼** button.
2. Select your GMT offset using the **OK (⊙)** or **◀▶** button.
3. A pop-up will appear. Select **Yes** and press the **OK (⊙)** button.

Note:

- The current time is set automatically whenever GMT offset changes.
- GMT can be changed in 30 minutes/1 hour units.



8. Setting

2. Power On

You can set the time you want the product to be automatically turned on.

1. Select **Power On** using the ▲/▼ button.
2. Select **Enable/Disable** using the OK (⊙) or ◀▶ button.

Enable Uses Power On and sets the time the product should be turned on.

Disable Does not use Power On.

3. When you select **Enable**, enter the **Channel No.** and **Time** using the OK (⊙), ◀▶ or NUMERIC(0-9) buttons. Then, select **OK** and press the OK (⊙) button.



Note: To enter a radio channel in **Channel No.**, press the TV/RADIO (Ⓜ) button to switch to radio.

3. Power Off

You can set the time you want the product to be automatically turned off.

1. Select **Power Off** using the ▲/▼ button.
2. Select **Enable/Disable** using the OK (⊙) or ◀▶ button.

Enable Uses Power Off and sets the time the product should be turned off.

Disable Does not use Power Off.

3. When you select **Enable**, enter the **Time** using the ◀▶ or NUMERIC(0-9) buttons. Then, select **OK** and press the OK (⊙) button.



Note: Once Power On/Off has been set, it is repeated everyday.

8.4 A/V Setting

You can set the output of the audio or video.

1. Press the **MENU** (⏏) button.
2. Select **Setting** using the **▲/▼** button and press the **OK** (⏏) button.
3. Select **A/V Setting** using the **▲/▼** button and press the **OK** (⏏) button.



1. TV Screen Format

1. Select **TV Screen Format** using the **▲/▼** button.
2. Select one option from **4:3** and **16:9** using the **OK** (⏏) or **◀/▶** button.



2. Display Format

1. Select **Display Format** using the **▲/▼** button.
2. When choosing **4:3** as picture format, select one option among **Auto**, **Letter Box** and **Center Mode** using the **OK** (⏏) or **◀/▶** button.
3. When choosing **16:9** as picture format, select one option among **Auto**, **Pillar Box** and **Full Mode** using the **OK** (⏏) or **◀/▶** button.

3. Audio Output

1. Select **Audio Output** using the **▲/▼** button.
2. Select one option from **Mono** and **Stereo** using the **OK** (⏏) or **◀/▶** button.

8. Setting

8.5 Other Settings

You can configure other settings.

1. Press the **MENU** (⏏) button.
2. Select **Setting** using the **▲/▼** button and press the **OK** (⏏) button.
3. Select **Other Settings** using the **▲/▼** button and press the **OK** (⏏) button.



1. i Display Time

You can set the automatic display time of the information box when the channel is switched.

1. Select **i Display Time** using the **▲/▼** button.
2. Select a value between **Disable**, **1~20** seconds using the **OK** (⏏) or **◀/▶** button.

Note: When set to **Disable**, the **i-plate** will not be displayed when you switch the channel.



2. OSD Transparency

You can set the transparency of On Screen Display.

1. Select **OSD Transparency** using the **▲/▼** button.
2. Select one option among **Disable**, **25**, **50** and **75** using the **OK** (⏏) or **◀/▶** button.

Disable Fully opaque screen

25, 50, 75 The bigger the number, the more transparent the screen.

9. Edit Channels

In this chapter you can edit all channels or make changes to the favourite lists of the channels you have chosen.

Note:

- Press the **BACK** () button to save the changes and return to the previous menu. Press the **MENU** () button to exit the menu screen.
- Press the **TV/RADIO** () button on the remote to move to TV or radio channel list directly.

9.1 Edit Channels

Edit Channels enables you to lock or unlock the channels and select channel group, select all or delete the channels.

1. Press the **MENU** () button.
2. Select **Edit Channels** using the **▲/▼** button and press the **OK** () button.
3. Select **Edit Channels** using the **▲/▼** button and press the **OK** () button.

Note: The default password is **0000**.

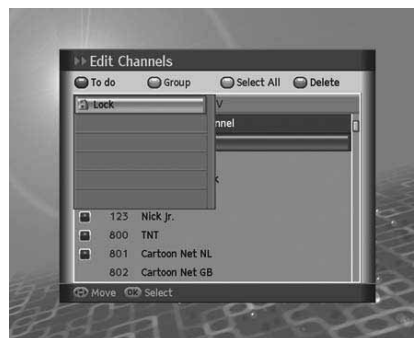


1. Locking/Unlocking Channels

1. Select the channel you want to lock and press the **RED** () button on the remote control. You can select more than one channel.
2. Select **Lock** using the **▲/▼** button and press the **OK** () button.

Note:

- When all selected channels are locked, **Lock** is switched into **Unlock**. When you press **Unlock**, the locked channel is switched into an unlocked channel.
- To watch locked channels, you must enter the password using the **NUMERIC(0-9)** buttons.
- The default password is **0000**.



9. Edit Channels

2. Selecting a Channel Group

You can select the channel list group to edit.

1. Press the **GREEN** (○) button on the remote control to display the group of channel lists.
2. Select the group you want using the ▲/▼ button and press the **OK** (⊙) button.



3. Select/Unselect All Channels

1. Press the **YELLOW** (○) button on the remote control to select all channels.
2. To release one or more channels from select all, press the **OK** (⊙) button while the cursor is on the selected channel.

Note: Up to 100 channels can be saved in Favourite group.



4. Deleting Channels

1. Select the channels you want to delete and press the **BLUE** (○) button on the remote control. You can select more than one channel.
2. The chosen channel(s) will be deleted.



9.2 Edit Favourite List

You can rename favourite groups, select favourite groups, select/unselect all channels, add or remove channels from the favourite channel list.

1. Press the **MENU** (⊖) button.
2. Select **Edit Channels** using the ▲/▼ button and press the **OK** (⊙) button.
3. Select **Edit Favourite List** using the ▲/▼ button and press the **OK** (⊙) button.



1. Renaming Favourite Groups

You can rename your favourite group.

1. Press the **GREEN** (○) button and select the favourite group to rename. Press the **OK** (⊙) button.
2. Press the **RED** (○) button and select **Rename Group** and then, press the **OK** (⊙) button.
3. Keyboard will appear. Enter the name of the favourite group using the keyboard.
4. Select **Save** and press the **OK** (⊙) button to complete.

Note: **Rename Group** becomes activated only when the cursor is placed on the right column.



9. Edit Channels

2. Selecting Favourite Groups

1. Press the **GREEN** (○) button on the remote control to display the group of favourite channels.
2. Select the favourite group you want using the ▲/▼ button and press the **OK** (⊙) button.



3. Selecting/Unselecting All Channels

1. Press the **YELLOW** (○) button on the remote control to select all channels.
2. To release one or more channels from select all, press the **OK** (⊙) button while the cursor is on the selected channel.

Note: Up to 100 channels can be saved in favourite group.



4. Adding/Removing Channels

You can add a channel to the favourite group or remove a channel from the list.

1. Select the channels you want to add to the favourite channel list using the ▲/▼ button.
2. Press the **BLUE** (○) button on the remote control to add the channels to the favourite list you have chosen.
3. To remove channels from the favourite list, select the channels from the list and press the **BLUE** (○) button on the remote control.

Note: When the cursor is on the left column, the blue button is marked **Add**; when the cursor moves to the right column, it becomes **Remove**.



10. Installation

In this chapter you can configure the installation settings in automatic search and manual search and update the software. You can also initialize the setting to the factory default.

Note: Press the **BACK** () button to save the changes and return to the previous menu. Press the **MENU** () button to exit the menu screen.

10.1 Automatic Search

If your product is connected to the aerial and TV, you can search channels automatically without entering additional information.

1. Press the **MENU** () button.
2. Select **Installation** using the  button and press the **OK** () button.
3. Select **Automatic Search** from Installation menu using the  button, and press the **OK** () button.



1. Search

Wait while channel search continues. This may take a few minutes. When you select **Stop** during channels search, the search will discontinue and the accumulated search results will show. If there is no channel available, a message indicating the result will pop up. Activate the search again if necessary.

To save the search results, select **Save** and press the **OK** () button.



10. Installation

10.2 Manual Search

You can search channels manually using the search parameters.

1. Press the **MENU** (⏏) button.
2. Select **Installation** using the ▲/▼ button and press the **OK** (⏏) button.
3. Select **Manual Search** using the ▲/▼ button and press the **OK** (⏏) button.
4. Select **Channel**, **Frequency** or **Network Search** using the ▲/▼ button, and press the **OK** (⏏) or button.



1. Channel

Enter the channel to search. When entering the channel number, the appropriate frequency value is displayed.

1. Select **Channel** using the ▲/▼ button.
2. Select a channel using the **OK** (⏏) or ◀/▶ button. You can enter the value directly using the **NUMERIC(0-9)** buttons.

2. Frequency

Enter the frequency to search directly. When entering the frequency, the appropriate channel for the entered frequency is automatically displayed.

1. Select **Frequency** using the ▲/▼ button and press the **OK** (⏏) button.
2. Enter the frequency using the **NUMERIC(0-9)** buttons and press the **OK** (⏏) button.

3. Network Search

When the information of a different frequency is provided, you can also search the channels that belong to that frequency.

1. Select **Network Search** using the ▲/▼ button and press the **OK** (⏏) button.
2. Select **Disable** or **Enable** using the **OK** (⏏) or ◀/▶ button.

Note: You can search channels after setting manual search. Refer to **10.1 Automatic Search**.

10.3 Software Update

Software Update allows you to update the system software.

1. Press the **MENU** (⏏) button.
2. Select **Installation** using the **▲/▼** button and press the **OK** (⏏) button.
3. Select **Software Update** using the **▲/▼** button and press the **OK** (⏏) button.



1. Automatic Update

1. Select **Automatic Update** and press the **OK** (⏏) button.
2. When new software is detected, you can choose to download the software immediately or save for later.
3. When there is no new software to update, a pop-up will appear.



2. Manual Update

1. Select **Manual Update** and press the **OK** (⏏) button.
2. Enter the values for **Channel** and **Frequency**.
3. Select **Search** and press the **OK** (⏏) button.
4. When new software is detected, you can choose to download the software immediately or save for later.
5. When there is no new software to update, a pop-up will appear.

Channel

1. Select **Channel** using the **▲/▼** button.
2. Select a channel using the **OK** or **◀/▶** button.



10. Installation

Frequency

1. Select **Frequency** using the ▲/▼ button.
2. Enter the frequency using the **NUMERIC(0-9)** buttons.

10.4 Default Setting

Default Setting enables you to restore the product to the factory default.

Warning: Please note that once you perform **Default Setting**, all data such as channel list and all user configured data will be deleted.

1. Press the **MENU** (⊖) button.
2. Select **Installation** using the ▲/▼ button, and press the **OK** (⊙) button.
3. Select **Default Setting** using the ▲/▼ button and press the **OK** (⊙) button.
4. Select **Yes** and press the **OK** (⊙) button to restore all setting to factory default. To return to the previous menu, select **No** and press the **OK** (⊙) or **BACK** (⊞) button.
5. You will be prompted to enter your password again before starting to load default setting. Enter the password to proceed.
6. When default setting is completed, installation wizard pops up automatically and assists channel search. For detailed information about installation wizard, refer to **Chapter 3**.

Note: The default password is **0000**.



10. Installation

10.5 Antenna Power

You can turn the antenna power on or off.

- **Power on the antenna only in the following case:**
 - If you are using an active antenna that has its power supplied by the aerial.
- **Power off the antenna in the following cases and in all other cases:**
 - If you are using an active antenna with its own power source.
 - If you are using a passive antenna.

Caution: Be sure to turn off the antenna power when using an active antenna with its own power source. Damage may occur to the antenna if left on.

1. Press the **MENU** (⏏) button.
2. Select **Installation** using the **▲/▼** button and press the **OK** (⏏) button.
3. Select **Antenna Power** using the **▲/▼** button and press the **OK** (⏏) button.
4. Select **On/Off** using the **OK** (⏏) or **◀/▶** button. You will be prompted to enter your password when selecting **On**.

Note: The default password is **0000**.



11. Software Update

In order to maintain proper performance of the product, it is essential to have the most up-to-date software. Visit the Humax website to check the latest news and newly released software versions.

<http://www.humaxdigital.com>.

It is recommended that you periodically check for the availability of software update.

11.1 OTA (Over the Air)

OTA, an abbreviation of **Over-the-Air**, is a standard for the transmission of software through a broadcast system.

OTA is simply an alternative method for downloading software versions. However, the manufacturers reserve the right for deciding the release of the software for their products by beaming the latest software versions over the air via aerial. The software update via aerial will only occur under the following circumstances.

1. The equipment should have appropriate loader software.

Caution: Please note that if normal loader software is not equipped, the product may not be updated or operate properly after software update.

2. The manufacturer decides to release the software via a designated channel.
3. The equipment must be tuned properly to the same aerial equivalent to that of the manufacturer.
4. Update software when the signal strength and quality is high. If the signal strength and quality are not recommendable, perform the software update later.

Caution:

- Please be careful to keep the power on and the power cord plugged in during software update. If the power is off during software update, fatal damage may be caused to the product.
- Please be careful not to pull out the signal line (coaxial cable) during software update. Update may be interrupted and the product may not operate.

Note:

- Other functions will not activate while software update takes place.
- It may take 5~10 minutes to update software.
- Scheduling operation cannot work during software update.

1. When new software is detected via OTA

1. A message will pop up when powering on to notify that software update is available.
2. Select **Immediate** and press the **OK** (⊙) button to perform software update immediately.
3. Select **Later** and press the **OK** (⊙) button to update the software later.

12. Menu Map



System

- 1. CI-Module
- 2. System Status
- 3. Dolby Digital
- 4. Startup-Channel



Setting

- 1. Parental Control
- 2. Language Setting
- 3. Time Setting
- 4. A/V Setting
- 5. Other Settings



Edit Channel

- 1. Edit Channels
- 2. Edit Favourite List



Installation

- 1. Automatic Search
- 2. Manual Search
- 3. Software Update
- 4. Default Setting
- 5. Antenna Power

13. Trouble Shooting

13.1 Trouble Shooting

Before contacting your local service centre, please read the tips below carefully. If the problem persists after completing the following procedure, please contact your local product distributor or service centre for further instructions.

1. No message displayed on the front panel. (The product will not switch on.)

- Check the main power cable and make sure it is plugged into a suitable power outlet.
- Check that the mains supply is switched on.
- Check that the power switch is on at the rear of the product. (where applicable)
- Connect the power cable to a different power outlet.

2. No picture on TV set

- Make sure that the product is powered on and in operation mode. (Press the STANDBY button)
- Make sure that the AV cable is firmly connected to the TV.
- Make sure that the antenna cable is properly connected to the product.
- Check the brightness level of the TV.
- Check if the channel is currently on air. Contact the broadcaster to ensure that the channel is running.

3. Poor picture/sound quality

- Install the antenna in an obstacle-free place.
- Make sure there is no mobile phone or microwave oven near the product.
- Adjust the antenna direction to get the better picture.
- Set the antenna power in menu to On, if you use the active antenna to improve the reception. (where applicable)

4. No or poor sound

- Check that your AV cable is connected correctly.
- Check the volume levels of your TV set and the product.
- Check if the product or TV is on mute.
- Check audio type or soundtrack option in the AV menu.

5. Remote control does not operate.

- To control the product, the top end of the remote control should point directly towards the receiving part of the product.
- Remove and reinsert the batteries in the remote control.
- Replace the batteries in the remote control for a new set.
- Set the remote control from TV mode to DTV mode, if you use the universal remote control.

13. Trouble Shooting

6. Cannot make reservations.

- Check that no previous reservations are conflicting with the new reservation.
- Check that the product is switched on at the time of the reservation.

7. No password information is given.

- The default password is always **0000**.

8. Channel search does not work.

- Make sure that the antenna is connected correctly.
- Use the appropriate antenna capable of receiving VHF or UHF channels for your area.

9. Cannot update new software.

- You can get an update. If the product does not show a message requesting update, that means no software is available.

10. Cannot watch scrambled channels.

- Check that you have the appropriate Smartcard or CI-Module. Reinsert the Smartcard or CI-Module and make sure it initializes correctly.
- Check in the menu that the product is detecting the Smartcard or CI-Module.
- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Ensure that the Smartcard or CI-Module is not damaged.

11. Cannot watch pay channels.

- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Contact your network operator for more information.

13. Trouble Shooting

13.2 Error Message

Error message	Possible causes	What to do
No or bad signal	The aerial is not pointing properly.	Adjust aerial. Check the cable from the aerial. If you cannot resolve the problem, you may need to have your aerial and installation tested by a professional.
The channel is scrambled or not available.	The channel has signal, but no audio or video. The channel is deleted by broadcasting company. The channel is for data broadcasting. (Cannot watch the channel in usual way.)	Check if the channel is currently on air.
The audio is not available.	The channel has signal, but no audio.	Press the audio button to check if the channel has audio.
CI module is not installed./Invalid CI module	CI module is not installed. CI module is not inserted correctly. CI module is broken.	Install proper CI module. Pull out the CI module and plug it in Replace CI module.

14. Specification

Tuner & Channel	
Input Connector	RF Loop Through Output Connector
I-Type male (IEC 169-2)	950MHz to 2150MHz
Frequency Range	50.5MHz to 858MHz (VHF)
Signal Level	-10 to -70 dBm
Demodulation	OFDM
Mode	2K, 8K
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8
Guard Intervals	1/4, 1/8, 1/16, 1/32

MPEG Transport Stream A/V Decoding	
Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Profile Level	MPEG-2 MP@ML, MPEG-2 MP@HL, MPEG-4 AVC/H.264 HP@L4
Aspect Ratio	4:3, 16:9
Video Resolution	720x576, 1920x1080i, 1280x720p
Audio Decoding	MPEG 1/2 Layer I & II, Dolby AC-3, Dolby AC3 Plus
Audio Mode	Single channel/dual channel/joint stereo/stereo

Audio/Video/Data In/Out	
Video	RCA-Typ (FBAS), Component (YPbPr), HDMI
Audio	Audio L/R, SPDIF (Digital Audio Output)
Data	RS-232C(9pin plug)

Power Supply	
Input Voltage	AC 90~ 250 V, 50/60 Hz
Type	SMPS
Power Consumption	Max 27W
Protection	Separate internal fuse. The input should be protected against lightning.

Physical Specification	
Size	370mm x 60mmx262mm (W x H x D)
Weight (Net)	2.5kg
Operating Temperature	0 °C to +45 °C
Storage Temperature	-10 °C to +70 °C

15. Glossary

EPG(Electronic Programme Guide)

An electronic equivalent to a printed television listings magazine; it is an application used with digital receivers and digital television sets to list current and scheduled programs that are or will be available on each channel, including a short summary or commentary for each program. The information supplied in the EPG is sent and updated by the channel broadcaster.

Frequency

The property of a signal measured in cycles per second (=Hz).

FTA (Free- To-Air)

An unscrambled broadcaster allowing customers to view channels or services without paying any subscription.

HDMI (High-Definition Multimedia Interface)

An all-digital audio/video interface that supports standard, enhanced, or high-definition video, plus multi-channel digital audio on a single cable. It transmits all ATSC HDTV standards and supports 8-channel digital audio.

Hi-Fi (High Fidelity)

The characteristics of audio devices that can play back all the audio frequencies a person can detect, which is the range of 16Hz and 20KHz. Sometimes it is used to indicate good quality of audio devices such as stereo tape products.

OSD (On Screen Display)

OSD displays the basic information necessary for the users to configure monitor or TV settings. OSD information may include brightness, contrast, tuning, RGB adjustment, and screen size and position.

OTA (Over The Air)

A standard for the transmission of software for equipment, through a broadcast system. Manufacturers reserve the right for deciding the release of the software for their products.

RF (Radio Frequency)

Television signals are modulated onto RF signals and are then demodulated by your television's or receiver's tuner.

RS-232C

A connection to allow you to connect to a PC to update receiver's software.

Smartcard

A chipcard the same size as a credit card which must be inserted into the digital receiver in order to descramble the TV signals.

15. Glossary

S/PDIF (Sony/Philips Digital Interface format)

A standard format for the transfer of digital audio signals. It allows the transfer of digital audio between two devices without any conversion to and from analogue, which could degrade the signal quality.

S-Video (Super-Video)

Sometimes referred to as Y/C video; a technology for transmitting video signals via a cable. It is a video signal transmission in which the luminance (brightness) and the chrominance (colour) signals are transmitted separately to achieve superior picture clarity.

16. Service and Support

Information concerning troubleshooting, software upgrade and product support is provided in the following call center. Should your product require warranty service, please contact HUMAX to obtain the appropriate authorization.

Singapore

Tel:	+65 6567 8483
Opening Hours:	Mon-Fri 10:00-17:00



HUMV-HDCI2000T.100GB(SG)